ELSEVIER

**Lipids and Lipid Metabolism**

Vol. 1255, 1995

BBA Biochimica et Biophysica Acta

# Cumulative Contents

*Announcement: New Subsection of Lipids & Lipid Metabolism* *vii*

*Information for Contributors* *ix*

## *Regular Section*

## *Regular Papers*

Polyunsaturated fatty acid regulation of lipogenic enzyme gene expression in liver of genetically obese rat
*N. Iritani, H. Hosomi, H. Fukuda and H. Ikeda (Japan)* 1

An enzymatic formation of 13-oxo-trideca-9,11-dienoic acid from 13-hydroperoxylinolenic acid by a homolytic hydroperoxide lyase in elicitor-treated soybean cotyledons
*Y. Kondo, Y. Hashidoko and J. Mizutani (Japan)* 9

Association of surfactant protein C with isolated alveolar type II cells
*R.A. Pinto, S. Hawgood, J.A. Clements, B.J. Benson, A. Naidu, R.L. Hamilton and J.R. Wright (USA)* 16

Physicochemical changes in human high-density lipoproteins (HDL) oxidized by gamma radiolysis-generated oxyradicals. Effect on their cholesterol effluxing capacity
*D. Bonnefont-Rousselot, C. Motta, A.O. Khalil, R. Sola, A.E. La Ville, J. Delattre and M. Gardès-Albert (France, Spain)* 23

Prevention of in vitro low-density lipoprotein oxidation by an albumin-containing Lp A-I subfraction
*C. Decossin, A. Tailleux, J.-C. Fruchart and C. Fiévet (France)* 31

On the mechanism of stimulation of peroxisomal β-oxidation in rat heart by partially hydrogenated fish oil
*J. Kvannes, T.S. Eikhom and T. Flatmark (Norway)* 39

Hepatic lipase gene expression is upregulated by a cystine-rich diet in male but not in female rats
*F. Benhizia, C. Sérougne, J. Férézou, D. Lagrange, M.I. Malewiak and S. Griglio (France)* 50

Lipoxygenase activity on the plasmalemma of sunflower protoplasts and its modulation
*A. Vianello, E. Braidot, G. Bassi and F. Macrì (Italy)* 57

Evidence for the importance of iron in the α-oxidation of 3-methyl-substituted fatty acids in the intact cell
*K. Croes, M. Casteels, P.P. Van Veldhoven and G.P. Mannaerts (Belgium)* 63

Conformational flexibility of pulmonary surfactant proteins SP-B and SP-C, studied in aqueous organic solvents
*A. Cruz, C. Casals and J. Perez-Gil (Spain)* 68

Fractionation of livers following diosgenin treatment to elevate biliary cholesterol
*I.D. Roman, A. Thewles and R. Coleman (UK)* 77

The influence of cholesteryl ester content on hepatocyte triolein emulsion uptake
*S.H. Quarfordt, B.A. Landis and B.S. Oswald (USA)* 82

Effects of dietary fatty acids on signal transduction and membrane cholesterol content in rat platelets
*J.W.M. Heemskerk, M.A.H. Feijge, M.A.G. Simonis and G. Hornstra (The Netherlands)* 87

*Announcement: New Subsection of Lipids & Lipid Metabolism* *v*

Composition of phospholipid classes and phosphatidylcholine molecular species of gastric mucosa and mucus
*W. Bernhard, A.D. Postle, M. Linck and K.-F. Sewing (Germany, UK)* 99

Purification and characterization of a fatty acyl-ester hydrolase from post-germinated sunflower seeds
*M. Teissère, M. Borel, B. Caillol, J. Nari, A.M. Gardies and G. Noat (France)* 105

Fasting/refeeding has little lasting effect on long-chain fatty acids accumulating in the developing rat conceptus
*S.C. Cunnane and Z.-y. Chen (Canada)* 113

Identification, localization and possible role of calmodulin like protein in phospholipid synthesis of *Microsporum gypseum*
*A. Bindra, S. Giri and G.K. Khuller (India)* 118

The effects of probucol and clofibrate alone and in combination on hepatic cholesterol metabolism in the male rat
*J.H. Shand and D.W. West (UK)* 123
Structure and genetic polymorphism of blood group A-active glycosphingolipids of the rat large intestine
*D. Bouhours, G.C. Hansson and J.-F. Bouhours (France, Sweden)* 131
Selective uptake of low-density lipoprotein-associated cholesteryl esters by human fibroblasts, human HepG2 hepatoma cells and J774 macrophages in culture
*F. Rinninger, M. Brundert, S. Jäckle, T. Kaiser and H. Greten (Germany)* 141
Subcellular localisation and induction of NADH-sensitive acetyl-CoA hydrolase and propionyl-CoA hydrolase activities in rat liver under lipogenic conditions after treatment with sulfur-substituted fatty acids
*A. Garras, D.K. Asiedu and R.K. Berge (Norway)* 154
Compared selectivities of the phosphatidylinositol-synthase from maize coleoptiles either in microsomal membranes or after solubilization
*A.-M. Justin, A. Hmyene, J.-C. Kader and P. Mazliak (France)* 161
Coenzyme A-dependent cleavage of membrane phospholipids in several rat tissues: ATP-independent acyl-CoA synthesis and the generation of lysophospholipids
*T. Sugiura, N. Kudo, T. Ojima, K. Mabuchi-Itoh, A. Yamashita and K. Waku (Japan)* 167
Mechanisms of LDL-cholesterol lowering action of psyllium hydrophillic mucilloid in the hamster
*S.D. Turley and J.M. Dietschy (USA)* 177
Dietary $n-3$ polyunsaturated fatty acids modify Syrian hamster platelet and macrophage phospholipid fatty acyl composition and eicosanoid synthesis: a controlled study
*M.E. Surette, J. Whelan, G. Lu, I. Hardard'ottir and J.E. Kinsella (USA)* 185
Characterization of subpopulations of lipoprotein particles isolated from human cerebrospinal fluid
*I. Borghini, F. Barja, D. Pometta and R.W. James (Switzerland)* 192
Astasin, a novel cytotoxic carbohydrate-conjugated ergosterol from the colorless euglenoid, *Astasia longa*
*K. Kaya, T. Sano and F. Shiraishi (Japan)* 201
Lipase evolution: trout, *Xenopus* and chicken have lipoprotein lipase and apolipoprotein C-II-like activity but lack hepatic lipase-like activity
*A. Lindberg and G. Olivecrona (Sweden)* 205
*Announcement: New Subsection of Lipids & Lipid Metabolism* v

## Review

Phases and phase transitions of the sphingolipids
*R. Koynova and M. Caffrey (USA)* 213

## Regular Papers

Triacylglycerol biosynthetic enzymes in lean and obese Zucker rats
*S.C. Jamdar and W.F. Cao (USA)* 237
On the rate-limiting step in the $\beta$-oxidation of polyunsaturated fatty acids in the heart
*M.A. Nada, S. Abdel-Aleem and H. Schulz (USA)* 244
On the surface activity of surfactant-associated protein C (SP-C): effects of palmitoylation and pH
*R. Qanbar and F. Possmayer (Canada)* 251
Interconversions and distinct metabolic fate of eicosapentaenoic, docosapentaenoic and docosahexaenoic acids in bovine aortic endothelial cells
*F. Achard, C. Bénistant and M. Lagarde (France)* 260
Regulation of lecithin:cholesterol acyltransferase by TGF-$\beta$ and Interleukin-6
*G. Skretting, E. Gjernes and H. Prydz (Norway)* 267
Purification and properties of two phospholipases D from *Streptomyces* sp.
*G. Carrea, P. D'Arrigo, V. Piergianni, S. Roncaglio, F. Secundo and S. Servi (Italy)* 273
Free ceramides of *Echinococcus multilocularis* metacestodes
*F. Persat, J.-F. Bouhours, A.-F. Petavy and M. Mojon (France)* 280
Abnormal structure and co-operative binding of low-density lipoprotein receptors containing the Glu-80 → Lys mutation
*D.D. Patel, A.K. Soutar and B.L. Knight (UK)* 285
Regulation of hepatic cholesterol metabolism in the rat in vivo: effect of a synthetic fat-free diet on sterol synthesis and low-density lipoprotein transport
*M. Bertolotti, D.K. Spady and J.M. Dietschy (USA, Italy)* 293
Remodelling of lipoproteins in transgenic mice expressing human cholesteryl ester transfer protein
*J. Dinchuk, J. Hart, G. Gonzalez, G. Karmann, D. Schmidt and D.O. Wirak (USA, Germany)* 301
Endogenous sulfidopeptide leukotriene synthesis and 12-lipoxygenase activity in bullfrog (*Rana catesbeiana*) erythrocytes
*K. Gronert, S.M. Virk and C.A. Herman (USA)* 311

Progesterone stimulation of HMG-CoA reductase activity in cultured cells
*R.C. Sexton, A.K. Gupta, S.R. Panini and H. Rudney (USA)* 320
Influence of cell culture conditions on diet-induced changes in lymphocyte fatty acid composition
*P. Yaqoob, E.A. Newsholme and P.C. Calder (UK)* 333

*Rapid Report*

Cholest-3,5-dien-7-one formation in peroxidized human plasma as an indicator of lipoprotein cholesterol peroxidation potential
*M. Hahn, M. Tang and M.T.R. Subbiah (USA)* 341

*Short-Sequence Paper*

Cloning and characterization of the mouse PIG-A gene
*J. Yu, S. Nagarajan, J. Liu, N. Young and M.E. Medof (USA)* 344

*Subsection*
*Regular Paper*

Lipoxygenase activity in rat dermis and epidermis: partial purification and characterization
*L. Lomnitski, D. Sklan and S. Grossman (Israel)* 351

*Cumulative Contents, Vol. 1255* 361

*Author Index* 364